

Provisional Patent Applications – A Panacea for Large and Small Molecules? March 15, 2023

Provisional Patent Applications –
A Panacea for Large and Small Molecules?
Short Answer – No
Long Answer - Maybe



Speakers



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Overview

- Basics regarding provisional patent applications
- Provisional positives
- Provisional pitfalls
- Using provisionals effectively



Basics – Provisional Applications



Differences between Provisional and Non-Provisional Applications

Provisional

- No substantive examination
- Does not issue as a patent (expires after 12 months)
- No claims required
- Cheaper to file
- Does not detract from term
- Cannot claim priority
- Does not publish (but publicly available when non-provisional claiming priority to it publishes)
- Can mark invention "patent pending"
- Protects absolute novelty

Non-provisional

- Examined
- Will issue as patent or go abandoned
- Claim(s) required
- More fees/more formalities
- Starts 20-year term clock
- Can claim priority to provisional and non-provisional applications
- Published 18 months after first effective filing date (unless will not file in other countries and request non-publication)
- Can mark invention "patent pending"
- Protects absolute novelty <a>[



Filing Requirements For Provisional and Non-Provisional

Complete Provisional Application

- Cover Sheet
 - Identifying as provisional
 - Title
 - Inventor information (can be "John Doe" inventor, city and state)
 - Federal Funding
- Specification
- Drawing(s), if necessary
- Fees

Complete Non-provisional Application

- Specification
 - At least one claim
- Drawing(s), if necessary
- Inventor's Declaration*
- Fees*

(Federal funding identified in body of application)

* Can be filed late with additional fees



Filing Strategies (examples) PCT PCT Regional/National Stages 1. Provisional(s) (± non-PCT US, CA, EP, AU, etc. countries) AND/OR Direct non-provisional (e.g., US) 2. Non-provisional **PCT** PCT Regional/National Stages US, EP, AU, etc. (e.g., US) (± non-PCT countries) OR Direct nonprovisional (e.g., EP)

Provisional Positives



Patent Term for Utility Applications

Term

 20 years from the filing date of the application (provisional does not count against term)

Patent Term Adjustment

- USPTO must meet certain deadlines
- Counterbalanced by applicant delay

Patent Term Extension

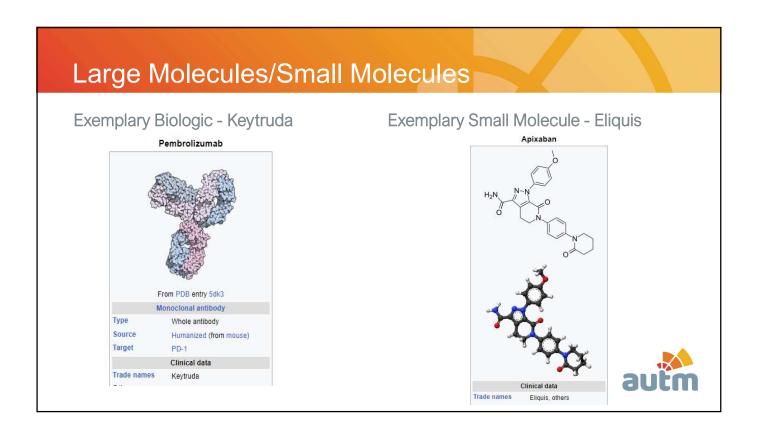
Drug products and medical devices (max 5 years to term and max 14 years from approval)

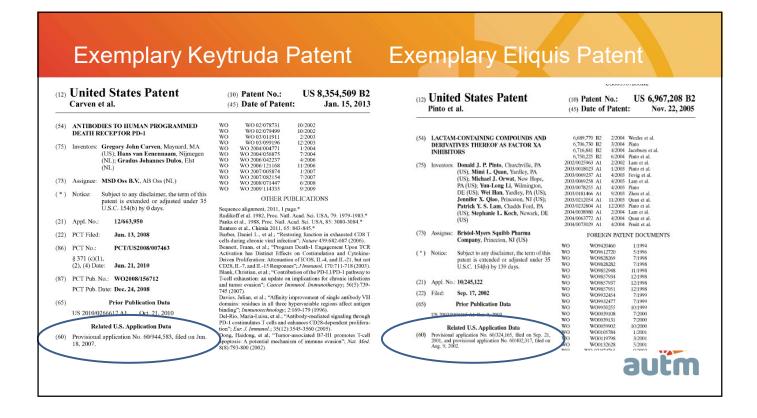
Terminal Disclaimers

Payment of Maintenance Fees



Criticality of the Last Year of Patent Term Note: 1) Price after patent expiry 2) Increase in revenue over patent term Eliquis Solid lines represent actual revenue, through 2021. Dotted lines represent projected revenue. Numbers in millions USD.





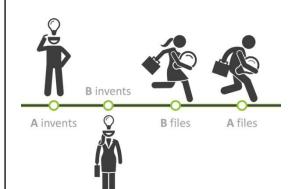
Opportunity to Add New Developments

Provisional application cannot itself be amended but additional provisionals or non-provisionals claiming priority to the provisional can include more

- Identification of lead large/small molecule
- New large/small molecules
- New data
- New uses
- · New methods of making



First to File



America Invents Act (AIA)

Effective March 16, 2013, the US changed from first-to-invent to first-to-file

- Before the effective date of the AIA

 A should win if diligent in developing of and filing on the invention
- After the effective date of the AIA B should win as first to file

Filing early in a rapidly developing field is important



Delay

1. Provisional(s)



PCT



PCT Regional/National Stages US, CA, EP, AU, etc.

Provisional offers a delay in costs

Can postpone national stage filings for 30-31 months (even up to 42 months in CA)

Provisional offers a delay in formalities

Analysis of inventorship/ownership

Provisional offers a relatively low-cost year in which to seek a licensee



Reasons to File a Provisional to Protect Large/Small Molecules

Commercial importance of last year of term

First to file – allows for quick filing to establish filing date

Allows for modification through serial provisionals and/or additions to non-provisional

Delay – costs, details

BUT...



Provisional Pitfalls



Establishing a Priority Date

Priority to a provisional is limited to the disclosure within the provisional(s)

- The invention of some claims in the non-provisional may be disclosed in the earliest provisional
- The invention of other claims in the non-provisional may be disclosed in second (or subsequent) provisional
- The invention of yet other claims in the non-provisional may not be disclosed in the provisional(s)

(Different claims can have different priority dates)

Large/small molecules generally considered unpredictable sciences

- Requires chemical compounds or sequences for written description
- Requires multiple examples to establish a genus (issue before Supreme Court now regarding antibody claims)
- Requires methods of making/using and data

Coversheet provisionals can give a false sense of security



Intervening Public Disclosures

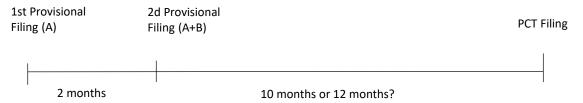


If P1 discloses only A, P2 discloses A+B, and intervening publication discloses A+B

- If publication by inventors, no priority to P1 for B
- If publication by a third party, could be prior art for B



Right to Claim Priority

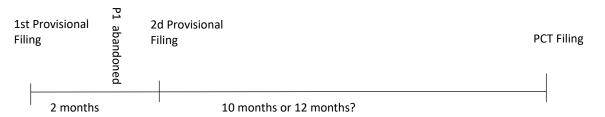


Can client claim priority only to P2 and file 12 months from that date?

The client can claim valid priority from P2, but only for claims that rely on subject matter NOT in P1 (B) unless . . .



Right to Claim Priority (continued)



". . . the said previous application has been withdrawn, abandoned, or refused, without having been laid open to public inspection and without leaving any rights outstanding. . ."

Exception – if P1 is expressly abandoned BEFORE P2 filed, then P2 can serve as the earliest filed application

Provisional as Prior Art

1st Provisional	
Filing	Non-provisional Filing

P1 is publicly available when the non-provisional application publishes

- If P1 discloses A+B, but non-provisional discloses and enables only A, P1 can be prior art as to subsequent inventions related to B
- Could file ON THE SAME DAY multiple provisionals of varying scope and select at "conversion" which serves as priority document - avoid creating art as to your later inventions



Informalities from Provisional Might Persist

Inventorship – should be evaluated at time of filing provisional or non-provisional and re-evaluated whenever claims change Ownership - assignments should be secured from all inventors prior to filing a PCT or in the EP listing the university as sole applicant



Summary of Provisional Pitfalls

- Priority date of claims only applies to what is disclosed in the provisional different claims in a non-provisional can have different priority dates
- Large and small molecules require detailed specification for enablement/written description
- Public disclosure after a provisional could exceed the scope of the provisional
- Cannot generally roll your final deadline for claiming priority to a series of provisionals – unless you have abandoned provisional before filing the next one
- Provisional becomes publicly available when non-provisional claiming priority publishes
- Informalities can carry over into non-provisional



Take-Home Message: Provisional Strategy

- Use provisionals to maximize profits last year of patent term often critical for large/small molecules
- File fully enabled specifications
- Attend to formalities (claims, sequence listings, drawings, inventorship, ownership) before 12-month deadline
- File multiple provisionals as needed consider abandoning first provisional before a second provisional is filed
- Limit public disclosures to what is in the filed provisionals
- Limit priority claims to the "first filed application not otherwise abandoned leaving no rights outstanding"
- Include grant support in the provisional and disclose to granting agency